

CCTGACCGGCCGGCGCCGGCCGGTCTGCCCTCTACCGAGCGCCTGCCGCC  
CCCTCCCCGGCCCGTCCCCCTCCCCGTCCCTCTCCCTCCCCGCCGCCCTCTC  
GGGGGGAGGGGCGTGGGGCAGGGAGCCGATTGCATGCCGCCGCCGCCCTG  
CCTGAGCCGGAGCCCGCCGCCGGAGCCGCCGCCGCCGCCGCCGCC  
CGGCCCATGCCCTGGCGGCCCTCGGGGGCGAAGGTGAAGATCGGCTCTAG  
GATGAGTGAAGGGGCGGCCGGTGCCTGCCACCTGGTCCGCTCGGCAGCCGCC  
CTCAGCCGAGGAGGGCACCGCGGCCGGCTGCCGCCGCCGCCGCCGCC  
CGGACGGCGGCCGGAGAAGGGCGGCCAACCCCCCGGGAGTTACGCTTAGCGACT  
GCATCGTGTGGAACCAGCAGCACGAGCTGGTGTGCGTGGTCCTGTTCATCGGCTT  
CATCGCCTGGGCTCAGCCTCATGCTGCTAAATGGATCGTGGTAGGCTCCGTCAAG  
GAGTACGTGCCAACGGACCTGGTGGACTCCAAGGGATGGCCAGGACCCCTTCTCC  
TCTCCAAGCCCAGCTTTCCCCAAGGCTATGAAACCACACAACCACCTCTACC  
ACGTCCCCCGCCACCCCTCTGCCGGCGCCCTCTCCAGGACGCCAACCGGA  
TTAGCACCCGCTTGACCAACATCACACGGCACCCACCCGCTTCCCTGGCACCGGGT  
TCCCACCGGGCTAGCCCAGCCTTACACAGCACGGAACACTGCTGCCCTCCGACG  
GTCTGTCCACCAAGGGCCCTTCTCAGTAGCAGCACGCCGGCTCCGACCCCGAT  
GCCAGGAGCCCCAGTACGCAGGCGATGCCCTGGCCACTGCCGTATGCTACC  
TCCTCTACCTCCACGATTCCACTCCCTCTGGACCCCTGTCAACCTTCAGGATGCTGC  
TGCCGCCTCTCTCTCACCTCTCCACCTCCACTACCACCAACCCCCAGAAACTA  
GCACCAGCCCCAAATTCTATACTACAACATACTCCACTGAACGATCTGAGCACTTCAA  
ACCCTGCGAGACAAGGACCTGGGTATTGCTCAATGATGGTAATGCTTGTGATT  
GAGACCTGACAGGATCCCATAAGCACTGTCGGTCAAGGAAGGCTACCAAGGAGTC  
CGTTGTGATCAATTCTGCCAAAACAGACTCCATCTATCGGATCCAACAGACCACTT  
GGGGATTGAATTCTGGAGAGTGAAGACGTTATCAAAGGCAGGTGCTGTCATTCA  
TGTATCATCTTGAATTGTCATCGTGGCATGTTCTGTCAGCATTCTACTTCAAAG  
CAAGAAACAAGCTAAACAAATTCAAGGAGCACCTGAAAGAGTCACAGAATGGGAAGAA  
CTACAGCCTCAAGGCATCCAGCACAAAGTCTGAGAGCTTGTGATGAAGAGCCATGTCCAT  
CTACAAAATTATTCAAAGGCGATAGGCATCTGACTGCGCTGGAGAAAATAATGG  
AGTCAAGTTTCAGCTCCCCAGTCGTTCCAGAACGACTTCTCTGACCGAGGAAG  
CCAGCCTATCAAGCACACAGGCCAGGACAAAGGAGTGGATGTTGCATAGGAATAC  
TTCAAGGGACCACCCCTCACCCGAAGTCGACTGGTGGTATTGTTAGGACAGCA  
TATCAACAATTGAAAGAATCAAGAATTCCAGACCAGGATACGATACCTGCCAAGGG  
TAGAGGTAGGAAGACTATATCCCACCTGCCTATACAGCTGTTGTGAAAGACC  
CCTGGACTAAAGTATGTGCAATGGCTTAAGAACCCACAAATGCATCAATAAT  
ATGCAACTGCCCTCAAGAGAGACAAACCCCTATTTAATAGCTGGATCAAAGGACC  
TGGTGGTTATTATCCCAAGGGCCAATTCTGTCGCCATCATCCGTCGATGGGTCTA  
GAAGAAACCTGCATGCAAATGCCAGGGATTCTGACGTAAAAGCATTAAATGGTCA  
AAAACCTACTCCGCTGACATTGTCACCGCAGTATGCCAGTCAGTGAATTGCTTCTA  
GAAGAACACAGGAAGTGAAGAAATTACTAGAGACTGTGCAAGAACAGATCCGGATT  
CTGACTGATGCCAGACGGTCAGAAGACTTCGAACTGGCCAGCATGGAAACTGAGGAC  
AGTGCAGCGAAAACACAGCCTTCTCCCCCTGAGTCCCACGGCAAATCAGAACGAG  
AGGCACAATTGCTTAAGAAATGAAATACAAAGAGACTCTGTGCTAACCAAGTGACT  
GGAAATGTAGGAATCTGTGCATTATATGCTTGTCAAACAGGAAGGAGAGGAATTA  
AATACAAATTATGCTTAATTAGAGCATCTACTTAGAAGCC

Figure 1

TCACCGACCTAGTGGACTCCACTAGGTGGTGGGACGTACTCCTGACGGAGCCCAC  
CACGATCCATTGAGAACATGAGGCAGGCCCATGCCTCTGCCGCCCTGGGG  
GGCGAAGGTGAANACCGCTCTAGGATGAGTGAAGGGCGGCCGTGCCCGCCA  
CCTGGTGCCGCTCGGCAGCCGCCCTGGCGAGGAGGGCACCGCGGGCTGCG  
GCGGCCGGCAGCGCGGGCGGGGCCGACGGCGCGAAGGGCGGCCGAGCC  
CCCCCGGGAGTTACGCTGTAGCGACTGCATCGTGTGAACCAGCAGCACGTGGCT  
GTGCGTGGTACCTCTGTTATCGGCTTCATCGGCCTGGGCTAGCCTCATGCTTCTCA  
AATGGATCGTGGTGGCTCCGTAAGGAGTACGTGCCACCGACCTAGTGGACTCAA  
GGGGATGGGCCAGGACCCCTTCTTCCCTCCAAGCCCAGCTTTCCCAAGGCCATG  
GAGACCAACCACCACTACCACTCCACCACGTCCCCGCCACCCCTCCGCCGGGGTG  
CCGCCTCCCTCAGGACGCCAACCGGATTAGCACTCGCCTGACCACCATACGCC  
GCCCACTCGCTCCCCGGCACCGGGTCCCCATCCGGGCCAGCCCGCTCCACCA  
GCACGAAACACTGCGGCCCTCGACGGTCCACACGGCCCCGTTCTCAGTA  
GCAGCACGCTGGCTCCCAGCCCCGGTGCAGGAACCTCAAGTACCCAGGCAATGCC  
CTCCTGGCCTACTCGGGCATACGCTACCTCTCTACCTTCACGATTCTACTCCCTCCT  
GGACCTGTCTCCCTTCAGGATGCTGCCCTCTTCTCTCTCTCCCTCCGCTA  
CCACCAACACCAAGAAACTAGACCAAGCCCCAAATTCAACGACGACATATTCCAC  
AGAGCGATCCGAGCAGCTCAAACCCCTGCCAGACAAGGACCTGCAACTGTCTCAAT  
GATGGCGAGTGTTGTGATGAAACCTGACGGATCCCATAAACACTGTCGGTGCA  
AAGAAGGCTACCAAGGAGTCCGTTGTGATCAATTCTGCCAAAAGTCAATTCCATCTT  
ATCGGATCCAACAGACCACTGGGATTGAATTCATGGAGAGTGAAGAAGTTATCAA  
AGGCAGGTGCTGCAATTATCATGTATCATCTTCCAATTGTGATCGTGGCATGTTCTG  
TGCAGCATTCTACTTCAAAAGCAAGAAACAAGCTAAACAAATCCAAGAGCAGCTGAA  
AGTGCACAAAATGGTAAAAGCTACAGTCTCAAAGCATCCAGCACATGGCAAAGTC  
AGAGAACTTGGTGAAGAGCCATGTCCAGCTGCAAATTATTCAAAGGTGGAAAGGCA  
TCCTGTGACTGCATTGGAGAAAATGATGGAGTCAAGTTGTGCGCCCCAGTCATT  
CCTGAGGTCCCTCTCCTGACAGAGGAAGCCAGTCTGTCAAACACACCACAGGAGTCTAT  
CCTCTGCTGAGCCAGGGCAAAGAAGTAGGCTAGGTGGATTGTGGGACAGCATATCAGCA  
ACTCGAAGAATCAAGGATCCCAGACAGGATACGATACCTGCCAAGGGATAGAGGT  
CAGGAAGACTATATCCCACCTGCCATACAGCTGTGGTGTGAAAGACCCCTGGAC  
TTAAAGTATTATCCAGTGGTTAAAAACCCAAACGAAATACATCAATAAATATGCAAC  
TGCCTCAAGAGAGACAAACCCCTATTAAATAGCTTGGAGCAAAAGGACCTGGTGGG  
CTATTATCCACAAGGCCAGTTCTGTGCCATATCCCTCAGTGGTTAGAGGAA  
ACCTGCCTGCAAATGCCAGGGATTCTGAAGTCAAAGCATCAAATGGTCAAAAAGT  
CCTATTCAAGGAGACAAACCCCTATTAAATAGCTTGGAGCAAAAGGACCTGGTGGG  
ACAACAAGAAGTAAAATATTGCTAGAAACTGTCCAGGAGCAGATCCGAATTCTGACT  
GATGCCAGACGGTCAGAAGACTACGAACACTGGCAGCGTAGAAACCGAGGACAGTGCA  
AGCAGAAACACAGCCTTCTCCCCCTGAGTCCCACAGCCAATCAGAACGAGAGGGCG  
AATTGTCTTAAGAAATGAAATACAAAGAGACTCTGCATTGACCAAGTGACTGGAGAT  
GTAGGAATCTGTGCATTCTATGCTTGTCAACAGGAAAGAGAGGAAATCAAATCAA  
ATTATTTATATGCATTAATTAAAGAGCATCTACTTAGAAGAAACCAAATAGTCTATCGC  
CCTCATATCATAGTGTGTTAACAAAATTTTTAAGGGAAAGAAATGTTAGGAA  
GGGATAAAAGCTT

Figure 2

ATGAGTGAAGGGCGGCCGTGCCACCTGGTGCCGCTCGGCAGCCG  
CCGCCTCGGCCGAGGAGGGACCGCGGCCGTGCGCGGCCAGCGCG  
GCGGGGGCCGGACGGCGGCCGAAGGGCGGCCAGGCCCCCGGGAGT  
TACGCTGTAGCGACTGCATCGTGTGGAACCGCAGCAGACGTGGCTGTGCGT  
GGTACCTCTGTTCATCGGCTTCATCGGCCTGGGCTCAGCCTCATGCTTCTCA  
AATGGATCGTGGTGGGCTCCGTCAAGGAGTACGTGCCACCGACCTAGTGGA  
CTCCAAGGGATGGGCCAGGACCCCTTCTCCTCTCCAAGGCCAGCTTTCC  
CCAAGGCCATGGAGACCACCACTACCACTTCCACACGTCCCCGCCACC  
CCCTCCGCCGGGGTGCCGCCTCCTCCAGGACGCCAACCGGATTAGCACTCG  
CCTGACCACCATCACGCCGGCCACTCGCTCCCCGGGACCGGGTGCCCA  
TCCGGGCCAGCCCGCGCTCCACACAGCACGGAACACTGCGGCCCTGCGAC  
GGTCCCCTCACCACGGCCCCGTTCTCAGTAGCAGCACGCTGGGCTCCGAC  
CCCCGGTGCCAGGAACCTCAAGTACCCAGGCAATGCCCTCTGGCCTACTGCG  
GCATACGCTACCTCCTCACCTCACGATTCTACTCCCTCTGGACCCGTCT  
CCCTTCAGGATGCTGCCTCCTCTTCTCTTCTCCCTCCGCTACCACC  
ACCACACCAGAAACTAGCACCAAGCCCCAAATTCTACGACGACATATTCCAC  
AGAGCGATCCGAGCACTCAAACCCCTGCCGAGACAAGGACCTGCAACTGTC  
TCAATGATGGCGAGTGCTTGTGATCGAAACCCCTGACCGGATCCCATAACAC  
TGTGGTGCAAAGAAGGCTACCAAGGAGTCCGTTGTGATCAATTCTGCCGAA  
AACTGATTCCATCTTATCGGATCCAACAGACCACTTGGGATTGAATTATGG  
AGAGTGAAGAAGTTATCAAAGGCAGGTGCTGTCAATTCTATGTATCTT  
GGAATTGTGATCGTGGGATGTTCTGTGCAGCATTCTACTTCAAAAGCAAGAA  
ACAAGCTAAACAAATCCAAGAGCAGCTGAAAGTGCCACAAAATGGTAAAAGC  
TACAGTCTCAAAGCATCCAGCACAATGGCAAAGTCAGAGAAACTTGGTGAAGA  
GCCATGTCCAGCTGCAAAATTATTCAAAGGTGGAAAGGCATCCTGTGACTGCA  
TTGGAGAAAATGATGGAGTCAAGTTGTGGCCCCAGTCATTCCCTGAGGT  
CCCTCTCCTGACAGAGGAAGCCAGTCTGTCAAACACACCAGGAGTCTATCCT  
CTTGTGCAAGCCAGGGCAAAGAAGTGGCATGCTCCATAGGAATGCCCTCAG  
AAGGACACCCCCGTACCCCGAAGTAGGCTAGGTGGAATTGTGGACCAGCA  
TATCAGCAACTCGAAGAATCAAGGATCCCAGACCAGGATACGATACCTGCCA  
AGGTATTCATCCAGTGGTTAAAAACCCAAAGAAATACATCAATAAAATATGC  
AACTGCCTTCAAGAGAGACAAACCCCTATTAAATAGCTTGGAGCAAAAGGAC  
CTGGTGGCTATTCATCCACAAGGGCCAGTTCTGTGCCCATCCTCAGT  
GGGTTAGAGGAACCTGCTGCAAATGCCAGGGATTCTGAAGTCAAAGC  
ATCAAATGGTGCAAAACTCCTATTCAAGCTGACGTGCAATGTGAGTATTCC  
AGTCAGCGATTGTCTTATAGCAGAACACAAGAAGTGAAAATATTGCTAGAA  
ACTGTCCAGGAGCAGATCGAATTCTGACTGATGCCAGACGGTCAGAAGACT  
ACGAACACTGGCCAGCGTAGAAACCGAGGACAGTGCAAGTGAAAACACAGCCTT  
TCTCCCCCTGAGTCCCACAGCCAATCAGAACGAGAGGCGCAATTGTCTAA  
GAAATGAAATACAAAGAGACTCTGCATTGACCAAGTGA

Figure 3

**hNRG3B1** 1 MSEGA~~AAASPPGA~~ASAAAASAEETAAAAAGGGPDGGGE~~GAAEPPR~~  
**mNRG3** 1 MSEGA~~AGASPPGA~~ASAAAASAEETAAAAAGGGPDGGGE~~GAAEPPR~~

H φ ← →

**hNRG3B1** 51 ELRCSDCIVWNRQQTWL~~C~~VVPLFIGFIGLGLSLM~~L~~LKWIVVGSVKEYVPT  
**mNRG3** 51 ELRCSDCIVWNRQQTWL~~C~~VVPLFIGFIGLGLSLM~~L~~LKWIVVGSVKEYVPT

← S/T rich

**hNRG3B1** 101 DLVDSKG~~M~~GQDPFFLSKPSSFPKAMETTTT~~T~~TSPATPSAGGAASSRT  
**mNRG3** 101 DLVDSKG~~M~~GQDPFFLSKPSSFPKAMETTTT~~T~~TSPATPSAGGAASSRT

**hNRG3B1** 151 PNRISTRLLTITRAPTRFPGH~~R~~VPIASPRSTTARNTAAPA~~P~~TVPSTTAPF  
**mNRG3** 151 PNRISTRLLTITRAPTRFPGH~~R~~VPIASPRSTTARNTAAPP~~T~~VLSTTAPF

**hNRG3B1** 201 FSSSTLGS~~R~~PPVPGTP~~S~~TQAMPSWPTAA~~Y~~ATSSY~~L~~H~~D~~STPSWTLSPFQD  
**mNRG3** 201 FSSSTP~~G~~S~~R~~PPMPGAP~~S~~TQAMPSWPTAA~~Y~~ATSSY~~L~~H~~D~~STPSWTLSPFODA

← → EGF-like

**hNRG3B1** 250 AASSSSSSS~~S~~ATTTPETSTSPKFHTTYSTERSEHFKP~~C~~RD~~K~~DLAYC  
**mNRG3** 251 AASSSSP~~S~~TSS~~T~~TTPETSTSPKFHTTYSTERSEHFKP~~C~~RD~~K~~DLAYC

**hNRG3B1** 299 LNDGE~~E~~FVIETLTGSHKH~~R~~KEGYOGVRC~~D~~QFLPKTDSILSDPTDHLGI  
**mNRG3** 301 LNDGE~~E~~FVIETLTGSHKH~~R~~KEGYOGVRC~~D~~QFLPKTDSILSDPTDHLGI

TM ← →

**hNRG3B1** 349 EFMESEE~~V~~YQROQLSISCIIFGIVIVGMFC~~A~~AFYFKSKKQAKQIQEQLKV  
**mNRG3** 351 EFMESED~~V~~YQROQLSISCIIFGIVIVGMFC~~A~~AFYFKSKKQAKQIQEHLKE

**hNRG3B1** 399 PONGK~~S~~YSLKASSTMAKSEN~~V~~KSHV~~G~~Q~~N~~YSKVER~~R~~HPTALEKMMMESSF  
**mNRG3** 401 SONGKN~~S~~YSLKASST-X~~E~~SLW~~K~~SHV~~H~~Q~~N~~YSKADR~~R~~HPTALEKIMMESSF

**hNRG3B1** 449 VGPQS~~F~~PEV~~P~~SPDRGS~~G~~SV~~K~~HRS~~L~~SSCC~~S~~PGQRSGMLHRNA~~F~~RR~~T~~PPSF  
**mNRG3** 449 SAPOS~~F~~PEV~~T~~SPDRGS~~G~~OP~~I~~KHH~~.....~~SPGQRSGMLHRNT~~F~~RRAPPSP

**hNRG3B1** 499 RSRLGGIVGPAYQQLEESRIPDQDTIPCOGIEVRKTISHLP~~I~~QLWCVERP  
**mNRG3** 492 RSRLGGIVGPAYQQLEESRIPDQDTIPCOGIEVRKTISHLP~~I~~QLWCVERP

**hNRG3B1** 549 DLKY~~S~~SSGLK~~T~~ORN~~T~~SINMQLPSRETNPYFNSLEOKDLVGYS~~S~~STRASSV  
**mNRG3** 542 DLKY~~V~~SNGLR~~T~~Q~~N~~ASINMQLPSRETNPYFNSLDOKDLVGYS~~P~~RANSV

**hNRG3B1** 599 PIIPS~~V~~GLEETCLQMPGISE~~V~~KSIKWKNSYSADVVNV~~S~~IPVS~~D~~CLI~~A~~E~~O~~  
**mNRG3** 592 PIIPS~~M~~GLEETCMQMPGISDV~~V~~KSIKWKNSYSADIVNA~~S~~MPVS~~D~~CV~~I~~E~~O~~

**hNRG3B1** 649 QEVKILLETVQEQIRILTDARRSEDYELAS~~V~~ETEDSASENTAFLPLSPTA  
**mNRG3** 642 QEVKILLETVQEQIRILTDARRSED~~F~~ELAS~~M~~ETEDSASENTAFLPLSPTA

**hNRG3B1** 699 KSEREAQFVLRNEIORDSA~~TK~~  
**mNRG3** 692 KSEREAQFVLRNEIORDS~~V~~TK

Figure 4A

hNRG3B1      1 MSEGA<sub>10</sub>ASPPGAASAAA<sub>10</sub>ASAEETAA<sub>10</sub>AGGGPDGGGE<sub>10</sub>GAAEPPR  
 hNRG3B2      1 MSEGA<sub>10</sub>ASPPGAASAAA<sub>10</sub>ASAEETAA<sub>10</sub>AGGGPDGGGE<sub>10</sub>GAAEPPR

HΦ

hNRG3B1      51 ELRCSDCIVWHRQQTWL<sub>10</sub>CVVPLFIGFIGLGLSLMLLK<sub>10</sub>WIVVGSVK<sub>10</sub>EYVPT  
 hNRG3B2      51 ELRCSDCIVWHRQQTWL<sub>10</sub>CVVPLFIGFIGLGLSLMLLK<sub>10</sub>WIVVGSVK<sub>10</sub>EYVPT

↑ ↓ S/T rich

hNRG3B1      101 DLVDSKGMDQDPFFLSKPSSFPKAMETTTT<sub>10</sub>TSPATPSAGGAASSRT  
 hNRG3B2      101 DLVDSKGMDQDPFFLSKPSSFPKAMETTTT<sub>10</sub>TSPATPSAGGAASSRT

hNRG3B1      151 PNRISTRLLTTITRAPTRFPGH<sub>10</sub>RVP<sub>10</sub>IRASPRSTTARNTAAPATV<sub>10</sub>PSTTAPF  
 hNRG3B2      151 PNRISTRLLTTITRAPTRFPGH<sub>10</sub>RVP<sub>10</sub>IRASPRSTTARNTAAPATV<sub>10</sub>PSTTAPF

hNRG3B1      201 FSSSTLGSRPPVPGTPSTQAMPSWPTAAAYATSSYLHDSTPSWTLSPFQDA  
 hNRG3B2      201 FSSSTLGSRPPVPGTPSTQAMPSWPTAAAYATSSYLHDSTPSWTLSPFQDA

← → EGF-like

hNRG3B1      251 A<sub>10</sub>SSSSSSSSATTTPETSTSPKFHTTYSTERSEHFKPCRD<sub>10</sub>KD<sub>10</sub>LAYCLN  
 hNRG3B2      251 A<sub>10</sub>SSSSSSSSATTTPETSTSPKFHTTYSTERSEHFKPCRD<sub>10</sub>KD<sub>10</sub>LAYCLN

hNRG3B1      301 DGE<sub>10</sub>CFVIETLTGSHKHCRCKEGYOGVRCDOFLPKTDSILSDOPTDHLGIEF  
 hNRG3B2      301 DGE<sub>10</sub>CFVIETLTGSHKHCRCKEGYOGVRCDOFLPKTDSILSDOPTDHLGIEF

TM

hNRG3B1      351 M<sub>10</sub>ESEEVYORQVL<sub>10</sub>SISCIIFGIVIVGMFC<sub>10</sub>A<sub>10</sub>FY<sub>10</sub>FKSKKQAKO<sub>10</sub>I<sub>10</sub>EQ<sub>10</sub>OLKVPO  
 hNRG3B2      351 M<sub>10</sub>ESEEVYORQVL<sub>10</sub>SISCIIFGIVIVGMFC<sub>10</sub>A<sub>10</sub>FY<sub>10</sub>FKSKKQAKO<sub>10</sub>I<sub>10</sub>EQ<sub>10</sub>OLKVPO

hNRG3B1      401 NGKSYS<sub>10</sub>LKASSTMAKSEN<sub>10</sub>LVKSHVQL<sub>10</sub>ONYSKVERHPVTALEKMMMESSFVG  
 hNRG3B2      401 NGKSYS<sub>10</sub>LKASSTMAKSEN<sub>10</sub>LVKSHVQL<sub>10</sub>ONYSKVERHPVTALEKMMMESSFVG

hNRG3B1      451 POSFPEVPS<sub>10</sub>PD<sub>10</sub>RGSOSV<sub>10</sub>KHHRS<sub>10</sub>LSSCCSPG<sub>10</sub>QRS<sub>10</sub>GML<sub>10</sub>HRNAFRRTPPSPR<sub>10</sub>  
 hNRG3B2      451 POSFPEVPS<sub>10</sub>PD<sub>10</sub>RGSOSV<sub>10</sub>KHHRS<sub>10</sub>LSSCCSPG<sub>10</sub>QRS<sub>10</sub>GML<sub>10</sub>HRNAFRRTPPSPR<sub>10</sub>

hNRG3B1      501 RLGGI<sub>10</sub>VGPAYOOLEE<sub>10</sub>S<sub>10</sub>RIPDQDT<sub>10</sub>T<sub>10</sub>PCOG<sub>10</sub>I<sub>10</sub>EVRKT<sub>10</sub>I<sub>10</sub>SHLP<sub>10</sub>I<sub>10</sub>LWCVERPLD  
 hNRG3B2      501 RLGGI<sub>10</sub>VGPAYOOLEE<sub>10</sub>S<sub>10</sub>RIPDQDT<sub>10</sub>T<sub>10</sub>PCOG<sub>10</sub>-----<sub>10</sub>

hNRG3B1      551 LKY<sub>10</sub>SS<sub>10</sub>GLKT<sub>10</sub>ORTNT<sub>10</sub>S<sub>10</sub>INMOLP<sub>10</sub>S<sub>10</sub>RET<sub>10</sub>NPY<sub>10</sub>F<sub>10</sub>N<sub>10</sub>S<sub>10</sub>LE<sub>10</sub>Q<sub>10</sub>D<sub>10</sub>L<sub>10</sub>V<sub>10</sub>GY<sub>10</sub>S<sub>10</sub>STRASSVPI  
 hNRG3B2      551 -Y<sub>10</sub>SS<sub>10</sub>GLKT<sub>10</sub>ORTNT<sub>10</sub>S<sub>10</sub>INMOLP<sub>10</sub>S<sub>10</sub>RET<sub>10</sub>NPY<sub>10</sub>F<sub>10</sub>N<sub>10</sub>S<sub>10</sub>LE<sub>10</sub>Q<sub>10</sub>D<sub>10</sub>L<sub>10</sub>V<sub>10</sub>GY<sub>10</sub>S<sub>10</sub>STRASSVPI

hNRG3B1      601 IPSV<sub>10</sub>G<sub>10</sub>LEET<sub>10</sub>C<sub>10</sub>L<sub>10</sub>O<sub>10</sub>M<sub>10</sub>P<sub>10</sub>G<sub>10</sub>I<sub>10</sub>S<sub>10</sub>E<sub>10</sub>V<sub>10</sub>K<sub>10</sub>W<sub>10</sub>C<sub>10</sub>K<sub>10</sub>N<sub>10</sub>S<sub>10</sub>A<sub>10</sub>D<sub>10</sub>V<sub>10</sub>V<sub>10</sub>N<sub>10</sub>V<sub>10</sub>S<sub>10</sub>I<sub>10</sub>P<sub>10</sub>V<sub>10</sub>S<sub>10</sub>D<sub>10</sub>C<sub>10</sub>L<sub>10</sub>I<sub>10</sub>A<sub>10</sub>E<sub>10</sub>O<sub>10</sub>E  
 hNRG3B2      577 IPSV<sub>10</sub>G<sub>10</sub>LEET<sub>10</sub>C<sub>10</sub>L<sub>10</sub>O<sub>10</sub>M<sub>10</sub>P<sub>10</sub>G<sub>10</sub>I<sub>10</sub>S<sub>10</sub>E<sub>10</sub>V<sub>10</sub>K<sub>10</sub>W<sub>10</sub>C<sub>10</sub>K<sub>10</sub>N<sub>10</sub>S<sub>10</sub>A<sub>10</sub>D<sub>10</sub>V<sub>10</sub>V<sub>10</sub>N<sub>10</sub>V<sub>10</sub>S<sub>10</sub>I<sub>10</sub>P<sub>10</sub>V<sub>10</sub>S<sub>10</sub>D<sub>10</sub>C<sub>10</sub>L<sub>10</sub>I<sub>10</sub>A<sub>10</sub>E<sub>10</sub>O<sub>10</sub>E

hNRG3B1      651 VKILLET<sub>10</sub>VQE<sub>10</sub>QIR<sub>10</sub>I<sub>10</sub>L<sub>10</sub>D<sub>10</sub>A<sub>10</sub>R<sub>10</sub>R<sub>10</sub>S<sub>10</sub>E<sub>10</sub>D<sub>10</sub>Y<sub>10</sub>E<sub>10</sub>L<sub>10</sub>A<sub>10</sub>S<sub>10</sub>V<sub>10</sub>E<sub>10</sub>T<sub>10</sub>E<sub>10</sub>D<sub>10</sub>S<sub>10</sub>A<sub>10</sub>E<sub>10</sub>N<sub>10</sub>T<sub>10</sub>A<sub>10</sub>F<sub>10</sub>L<sub>10</sub>P<sub>10</sub>S<sub>10</sub>T<sub>10</sub>A<sub>10</sub>K<sub>10</sub>S  
 hNRG3B2      627 VKILLET<sub>10</sub>VQE<sub>10</sub>QIR<sub>10</sub>I<sub>10</sub>L<sub>10</sub>D<sub>10</sub>A<sub>10</sub>R<sub>10</sub>R<sub>10</sub>S<sub>10</sub>E<sub>10</sub>D<sub>10</sub>Y<sub>10</sub>E<sub>10</sub>L<sub>10</sub>A<sub>10</sub>S<sub>10</sub>V<sub>10</sub>E<sub>10</sub>T<sub>10</sub>E<sub>10</sub>D<sub>10</sub>S<sub>10</sub>A<sub>10</sub>E<sub>10</sub>N<sub>10</sub>T<sub>10</sub>A<sub>10</sub>F<sub>10</sub>L<sub>10</sub>P<sub>10</sub>S<sub>10</sub>T<sub>10</sub>A<sub>10</sub>K<sub>10</sub>S

hNRG3B1      701 EREAQFVLRNEIORDSALT<sub>10</sub>K  
 hNRG3B2      677 EREAQFVLRNEIORDSALT<sub>10</sub>K

Figure 4B

hNRG3.egf	268	H F K P C R D K D L A Y C L N D G E C F V I E T L T G S H K H - C R C K E G Y O G V   R C - D Q F
cARIA.egf	137	H L T K C D I K O K A F C V N G G E C Y M V K D L P N P P R Y L C R C P N E F T G D R C - Q N Y V
hAR.egf	142	K K N P C N A E F O N F C I H - G E C K Y I E H L E A V T - - - C K C Q Q E Y F G E R C G E K S M
hBTC.egf	65	H F S R C P K Q Y K H Y C I K - G R C R F V V A E Q T P S - - - C V C D E G Y I G A R C E R V D L
hEGF.egf	972	S D S E C P L S H D G Y C L H D G V C M Y I E A L D K Y A - - - C N C V V G Y I G E R C Q Y R D L
hHB-EGF.egf	104	K R D P C L R K Y K D F C I H - G E C K Y V K E L R A P S - - - C I C H P G Y H G E R C H G L S L
hHRG $\alpha$ .egf	178	H L V K C A E K E K T F C V N G G E C F M V K D L S N P S R Y L C K C Q P G F T G A R C T E N Y P
hHRG $\beta$ .egf	178	H L V K C A E K E K T F C V N G G E C F M V K D L S N P S R Y L C K C P N E F T G D R C - Q N Y V
hTGF $\alpha$ .egf	43	H F N D C P D S H T O F C F H - G T C R F L V Q E D K P A - - - C V C H S G Y V G A R C E H A D L
mEPR.egf	57	Q I T K C S S D M D G Y C L H - G O C I Y L V D M R E K F - - - C R C E V G Y T G L R C E H F F L

Figure 5

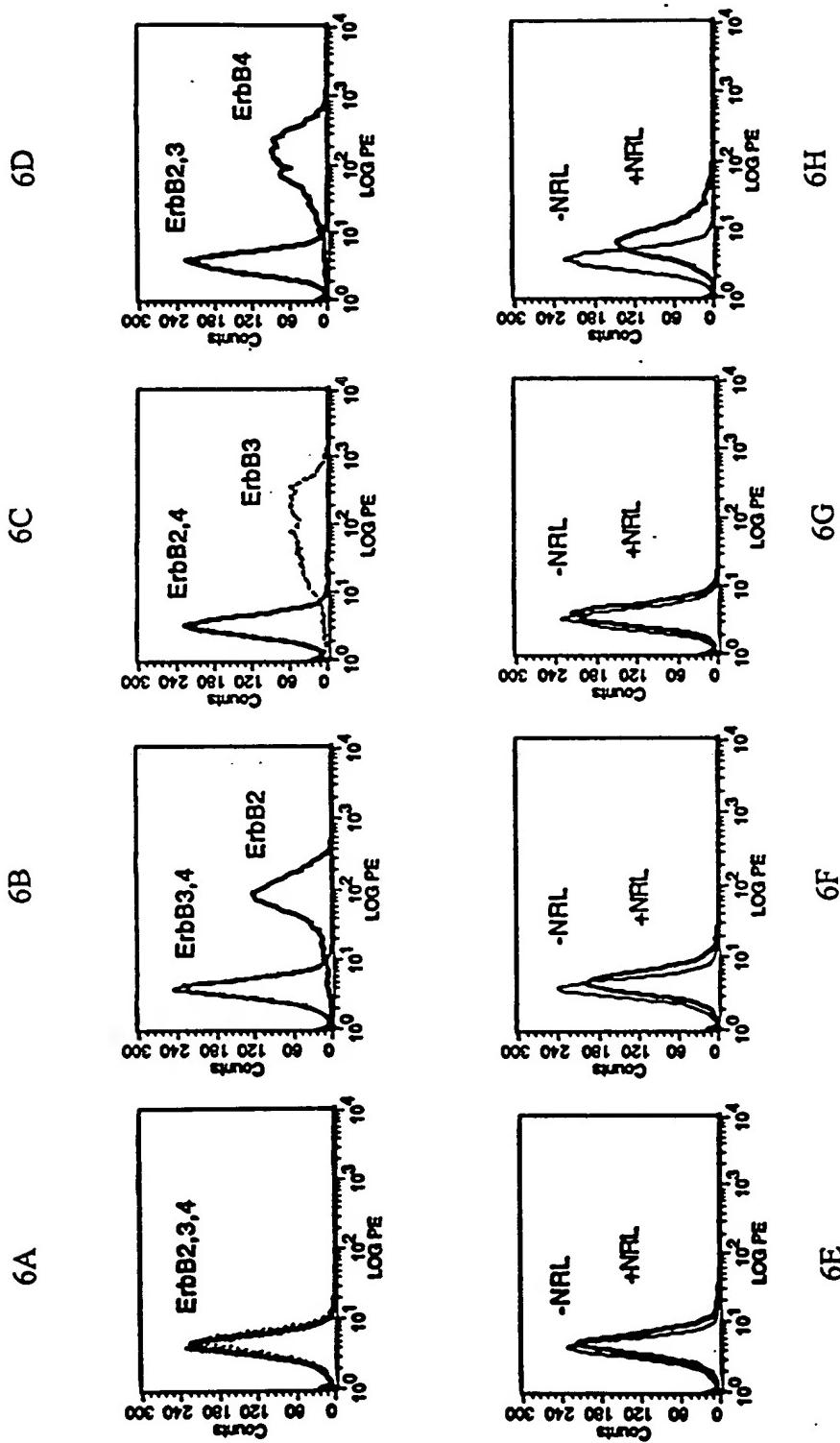


Figure 6A - 6H

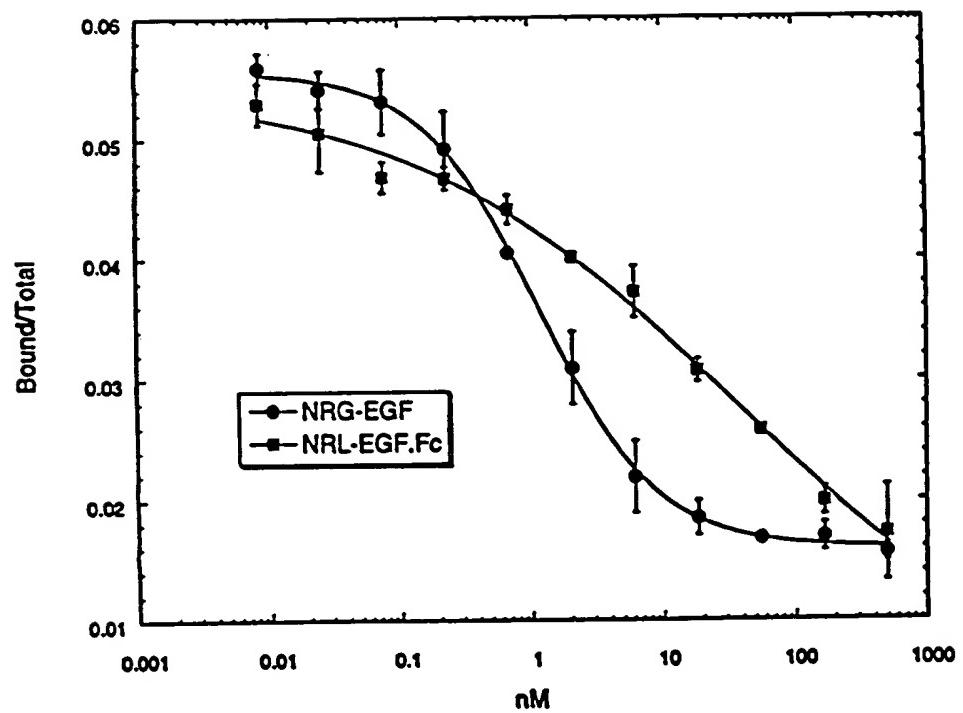


Figure 7